

**National Functional Guidelines Report #03**

Lab SENTIN(SENTINEL) SDG MF4N06 Case 41486 Contract EPW09040 Region 6 DDTID 125317 SOW ISM01.2

**Data Review Reports**

Blanks

<b>Blanks</b>	<b>ICP_MS</b>
ND03	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	MF4N14, MF4N15, MF4N43L, PBW, MF4N09, MF4N10, MF4N20, MF4N21, MF4N37, MF4N43, MF4N44, MF4N06, MF4N59, MF4N07, MF4N08, MF4N38, MF4N43D, MF4N60
	Selenium MF4N14 , MF4N15 , MF4N43L , PBW
	Cobalt MF4N09 , MF4N10 , MF4N20 , MF4N21 , MF4N37 , MF4N43L , MF4N43 , MF4N44 , MF4N06 , MF4N59 , MF4N07 , MF4N08
	Nickel PBW
	Beryllium MF4N38 , MF4N43L , MF4N43 , MF4N43D , MF4N59 , MF4N60 , PBW
	Antimony MF4N09 , MF4N10 , MF4N21 , MF4N37 , MF4N38 , MF4N43L , MF4N43 , MF4N43D , MF4N06 , MF4N60 , MF4N07 , PBW , MF4N08
	Cadmium MF4N14 , MF4N15 , MF4N20 , MF4N38 , MF4N43 , MF4N43D , MF4N60
	Manganese MF4N06
	Silver MF4N43 , MF4N43D
	Lead MF4N09 , MF4N10 , MF4N14 , MF4N15 , MF4N20 , MF4N21 , MF4N37 , MF4N38 , MF4N43L , MF4N43 , MF4N43D , MF4N44 , MF4N06 , MF4N59 , MF4N60 , MF4N07 , MF4N08
<b>Blanks</b>	<b>ICP_MS</b>
ND04	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated at CRQLs.
	MF4N43L, PBW, MF4N14, MF4N15, MF4N09, MF4N10, MF4N20, MF4N21, MF4N37, MF4N43, MF4N44, MF4N06, MF4N59, MF4N07, MF4N08, MF4N38, MF4N43D, MF4N60
	Vanadium MF4N43L , PBW
	Selenium MF4N14 , MF4N15 , MF4N43L , PBW
	Cobalt MF4N09 , MF4N10 , MF4N20 , MF4N21 , MF4N37 , MF4N43L , MF4N43 , MF4N44 , MF4N06 , MF4N59 , MF4N07 , MF4N08
	Nickel PBW
	Beryllium MF4N38 , MF4N43L , MF4N43 , MF4N43D , MF4N59 , MF4N60 , PBW
	Antimony MF4N09 , MF4N10 , MF4N21 , MF4N37 , MF4N38 , MF4N43L , MF4N43 , MF4N43D , MF4N06 , MF4N60 , MF4N07 , PBW , MF4N08
	Potassium PBW
	Cadmium MF4N14 , MF4N15 , MF4N20 , MF4N38 , MF4N43 , MF4N43D , MF4N60
	Manganese MF4N06
	Silver MF4N43 , MF4N43D
	Lead MF4N09 , MF4N10 , MF4N14 , MF4N15 , MF4N20 , MF4N21 , MF4N37 , MF4N38 , MF4N43L , MF4N43 , MF4N43D , MF4N44 , MF4N06 ,

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Blanks

<b>Blanks</b>	<b>ICP_MS</b>
	MF4N59 , MF4N60 , MF4N07 , MF4N08
<b>Blanks</b>	<b>ICP_MS</b>
ND05	The following samples have analyte results greater than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	MF4N09 , MF4N10 , MF4N14 , MF4N15 , MF4N20 , MF4N21 , MF4N37 , MF4N38 , MF4N43L , MF4N43S , MF4N43 , MF4N43D , MF4N44 , MF4N06 , MF4N59 , MF4N60 , MF4N07 , LCS , MF4N08
	Arsenic MF4N09 , MF4N10 , MF4N14 , MF4N15 , MF4N20 , MF4N21 , MF4N37 , MF4N38 , MF4N43L , MF4N43S , MF4N43 , MF4N43D , MF4N44 , MF4N06 , MF4N59 , MF4N60 , MF4N07 , LCS , MF4N08
	Nickel MF4N09 , MF4N10 , MF4N14 , MF4N15 , MF4N20 , MF4N21 , MF4N37 , MF4N38 , MF4N43L , MF4N43S , MF4N43 , MF4N43D , MF4N44 , MF4N06 , MF4N59 , MF4N60 , MF4N07 , LCS , MF4N08
	Lead MF4N43S , LCS
	Selenium MF4N09 , MF4N10 , MF4N20 , MF4N21 , MF4N37 , MF4N38 , MF4N43S , MF4N43 , MF4N43D , MF4N44 , MF4N06 , MF4N59 , MF4N60 , MF4N07 , LCS , MF4N08
	Barium MF4N09 , MF4N10 , MF4N14 , MF4N15 , MF4N20 , MF4N21 , MF4N37 , MF4N38 , MF4N43L , MF4N43S , MF4N43 , MF4N43D , MF4N44 , MF4N06 , MF4N59 , MF4N60 , MF4N07 , LCS , MF4N08
	Cobalt MF4N14 , MF4N15 , MF4N38 , MF4N43S , MF4N43D , MF4N60 , LCS
	Aluminum MF4N09 , MF4N10 , MF4N14 , MF4N15 , MF4N20 , MF4N21 , MF4N37 , MF4N38 , MF4N43L , MF4N43S , MF4N43D , MF4N44 , MF4N06 , MF4N59 , MF4N60 , MF4N07 , LCS , MF4N08
	Beryllium MF4N43S , LCS
	Antimony MF4N43S , LCS
	Thallium MF4N43S , LCS
	Cadmium MF4N43S , LCS
	Magnesium MF4N09 , MF4N10 , MF4N14 , MF4N15 , MF4N20 , MF4N21 , MF4N37 , MF4N38 , MF4N43L , MF4N43 , MF4N43D , MF4N44 , MF4N06 , MF4N59 , MF4N60 , MF4N07 , LCS , MF4N08
	Manganese MF4N09 , MF4N10 , MF4N14 , MF4N15 , MF4N20 , MF4N21 , MF4N37 , MF4N38 , MF4N43L , MF4N43S , MF4N43 , MF4N43D , MF4N44 , MF4N59 , MF4N60 , MF4N07 , LCS , MF4N08
	Silver MF4N43S , LCS
<b>Blanks</b>	<b>ICP_MS</b>
ND06	The following samples have analyte results greater than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	MF4N09 , MF4N10 , MF4N14 , MF4N15 , MF4N20 , MF4N21 , MF4N37 , MF4N38 , MF4N43L , MF4N43S , MF4N43 , MF4N43D , MF4N44 , MF4N06 , MF4N59 , MF4N60 , MF4N07 , LCS , MF4N08
	Vanadium MF4N09 , MF4N10 , MF4N14 , MF4N15 , MF4N20 , MF4N21 , MF4N37 , MF4N38 , MF4N43L , MF4N43S , MF4N43 , MF4N43D , MF4N44 , MF4N06 , MF4N59 , MF4N60 , MF4N07 , LCS , MF4N08
	Arsenic MF4N09 , MF4N10 , MF4N14 , MF4N15 , MF4N20 , MF4N21 , MF4N37 , MF4N38 , MF4N43L , MF4N43S , MF4N43 , MF4N43D , MF4N44 , MF4N06 , MF4N59 , MF4N60 , MF4N07 , LCS , MF4N08
	Nickel MF4N09 , MF4N10 , MF4N14 , MF4N15 , MF4N20 , MF4N21 , MF4N37 , MF4N38 , MF4N43L , MF4N43S , MF4N43 , MF4N43D ,

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Blanks

<b>Blanks</b>	<b>ICP_MS</b>
	MF4N44 , MF4N06 , MF4N59 , MF4N60 , MF4N07 , LCS , MF4N08
	Potassium MF4N09 , MF4N10 , MF4N14 , MF4N15 , MF4N20 , MF4N21 , MF4N37 , MF4N38 , MF4N43L , MF4N43 , MF4N43D , MF4N44 , MF4N06 , MF4N59 , MF4N60 , MF4N07 , LCS , MF4N08
	Lead MF4N43L , MF4N43S , LCS
	Selenium MF4N09 , MF4N10 , MF4N20 , MF4N21 , MF4N37 , MF4N38 , MF4N43L , MF4N43S , MF4N43 , MF4N43D , MF4N44 , MF4N06 , MF4N59 , MF4N60 , MF4N07 , LCS , MF4N08
	Barium MF4N09 , MF4N10 , MF4N14 , MF4N15 , MF4N20 , MF4N21 , MF4N37 , MF4N38 , MF4N43L , MF4N43S , MF4N43 , MF4N43D , MF4N44 , MF4N06 , MF4N59 , MF4N60 , MF4N07 , LCS , MF4N08
	Cobalt MF4N14 , MF4N15 , MF4N38 , MF4N43L , MF4N43S , MF4N43D , MF4N60 , LCS
	Aluminum MF4N09 , MF4N10 , MF4N14 , MF4N15 , MF4N20 , MF4N21 , MF4N37 , MF4N38 , MF4N43L , MF4N43 , MF4N43D , MF4N44 , MF4N06 , MF4N59 , MF4N60 , MF4N07 , LCS , MF4N08
	Beryllium MF4N43S , LCS
	Antimony MF4N43S , LCS
	Thallium MF4N43S , LCS
	Cadmium MF4N43S , LCS
	Magnesium MF4N09 , MF4N10 , MF4N14 , MF4N15 , MF4N20 , MF4N21 , MF4N37 , MF4N38 , MF4N43L , MF4N43 , MF4N43D , MF4N44 , MF4N06 , MF4N59 , MF4N60 , MF4N07 , LCS , MF4N08
	Manganese MF4N09 , MF4N10 , MF4N14 , MF4N15 , MF4N20 , MF4N21 , MF4N37 , MF4N38 , MF4N43L , MF4N43S , MF4N43 , MF4N43D , MF4N44 , MF4N59 , MF4N60 , MF4N07 , LCS , MF4N08
	Silver MF4N43S , LCS
<b>Blanks</b>	<b>ICP_MS</b>
NE04	The following samples have analyte results greater than or equal to MDLs but less than or equal to CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	MF4N14 , MF4N15 , MF4N38 , MF4N43 , MF4N43D , MF4N59 , MF4N60 , MF4N08 , MF4N09 , MF4N10 , MF4N21 , MF4N37 , MF4N06 , MF4N07
	Selenium MF4N14 , MF4N15
	Beryllium MF4N38 , MF4N43 , MF4N43D , MF4N59 , MF4N60
	Antimony MF4N08 , MF4N09 , MF4N10 , MF4N21 , MF4N37 , MF4N38 , MF4N43 , MF4N43D , MF4N06 , MF4N60 , MF4N07
<b>Blanks</b>	<b>ICP_MS</b>
NE05	The following samples have analyte results greater than CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	MF4N08 , MF4N09 , MF4N10 , MF4N14 , MF4N15 , MF4N20 , MF4N21 , MF4N37 , MF4N38 , MF4N43S , MF4N43 , MF4N43D , MF4N44 , MF4N59 , MF4N06 , MF4N60 , LCS , MF4N07 , MF4N43L
	Vanadium MF4N08 , MF4N09 , MF4N10 , MF4N14 , MF4N15 , MF4N20 , MF4N21 , MF4N37 , MF4N38 , MF4N43S , MF4N43 , MF4N43D , MF4N44 , MF4N59 , MF4N06 , MF4N60 , LCS , MF4N07

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Blanks

Blanks	ICP_MS
	Selenium MF4N08 , MF4N09 , MF4N10 , MF4N20 , MF4N21 , MF4N37 , MF4N38 , MF4N43S , MF4N43 , MF4N43D , MF4N44 , MF4N59 , MF4N06 , MF4N60 , LCS , MF4N07
	Beryllium MF4N43S , LCS
	Nickel MF4N08 , MF4N09 , MF4N10 , MF4N14 , MF4N15 , MF4N20 , MF4N21 , MF4N37 , MF4N38 , MF4N43L , MF4N43S , MF4N43 , MF4N43D , MF4N44 , MF4N59 , MF4N06 , MF4N60 , LCS , MF4N07
	Antimony MF4N43S , LCS
	Potassium MF4N08 , MF4N09 , MF4N10 , MF4N14 , MF4N15 , MF4N20 , MF4N21 , MF4N37 , MF4N38 , MF4N43L , MF4N43 , MF4N43D , MF4N44 , MF4N59 , MF4N06 , MF4N60 , LCS , MF4N07

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***Data Review Reports***

## Detection Limit

Detection Limit	ICP_MS
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	MF4N43L, PBW, MF4N10, MF4N20, MF4N21, MF4N44, MF4N59, MF4N06, MF4N07, MF4N08, MF4N09, MF4N14, MF4N15, MF4N37, MF4N38, MF4N43, MF4N43D, MF4N60
	Vanadium MF4N43L, PBW
	Nickel PBW
	Potassium PBW
	Copper MF4N10 , MF4N20 , MF4N21 , MF4N43L , MF4N44 , MF4N59 , MF4N06 , MF4N07
	Lead MF4N08 , MF4N09 , MF4N10 , MF4N14 , MF4N15 , MF4N20 , MF4N21 , MF4N37 , MF4N38 , MF4N43L , MF4N43 , MF4N43D , MF4N44 , MF4N59 , MF4N06 , MF4N60 , MF4N07
	Selenium MF4N14 , MF4N15 , MF4N43L , PBW
	Cobalt MF4N08 , MF4N09 , MF4N10 , MF4N20 , MF4N21 , MF4N37 , MF4N43L , MF4N43 , MF4N44 , MF4N06 , MF4N59 , MF4N07
	Zinc MF4N08 , MF4N14 , MF4N15 , MF4N20 , MF4N21 , MF4N43L
	Beryllium MF4N38 , MF4N43L , MF4N43 , MF4N43D , MF4N59 , MF4N60 , PBW
	Antimony MF4N08 , MF4N09 , MF4N10 , MF4N21 , MF4N37 , MF4N38 , MF4N43L , MF4N43 , MF4N43D , MF4N06 , MF4N60 , PBW , MF4N07
	Cadmium MF4N14 , MF4N15 , MF4N20 , MF4N38 , MF4N43 , MF4N43D , MF4N60
	Iron MF4N08 , MF4N10 , MF4N14 , MF4N20 , MF4N21 , MF4N37 , MF4N38 , MF4N43L , MF4N44 , MF4N59 , MF4N06 , MF4N60 , MF4N07
	Silver MF4N43 , MF4N43D
	Manganese MF4N06

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#### Serial Dilution

Serial Dilution	ICP_MS
NL032	The following ICP-MS Serial Dilution (SD) samples have percent difference (%D) greater than 10% and initial sample results are greater than 50xMDLs. The detected analytes in samples with results greater than or equal to MDLs are qualified J. Nondetected analytes in samples are qualified UJ. MF4N06, MF4N07, MF4N08, MF4N09, MF4N10, MF4N14, MF4N15, MF4N20, MF4N21, MF4N37, MF4N38, MF4N43, MF4N44, MF4N59, MF4N60
	Selenium MF4N43L
	Arsenic MF4N43L
	Aluminum MF4N43L